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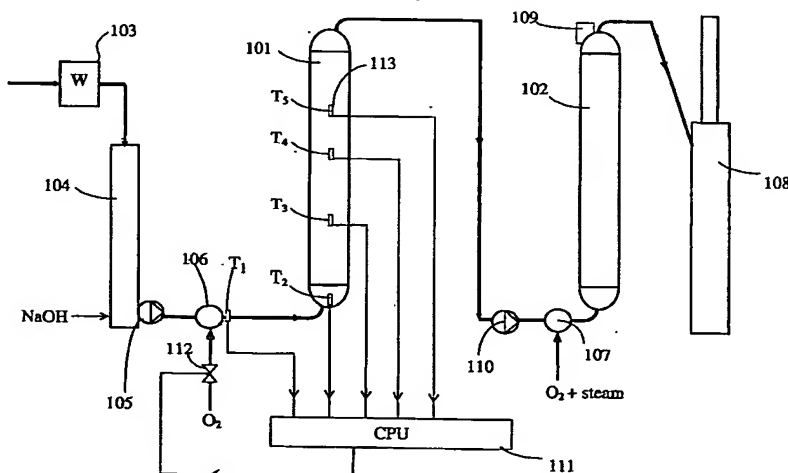
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ning of each regular issue of the PCT Gazette.

(54) Title: A METHOD AND SYSTEM FOR CONTROLLING THE ADDITION OF OXYGEN GAS AND ALKALI DURING  
OXYGEN GAS DELIGNIFICATION



(57) Abstract: A method and a system for the acid gas delignification of cellulose pulp in a gas/fluid suspension, in which oxygen gas delignification takes place in a reactor system with one or several oxygen gas reactors. Delignification chemicals are added at least before the first oxygen gas reactor such that oxygen gas remains present during the complete reaction process in the reactors, and alkalin an amount that ensures that the pH lies above 9. The method is characterised in that the temperature of the cellulose pulp is measured at least two different positions T1, T2, ..., Tn viewed in the direction of flow of the pulp through the system. The temperature measurements are used to control the charged amount of at least one delignification chemical to the oxygen gas delignification, where the first temperature measurement T1 is carried out at a position in association with the first addition of oxygen gas.